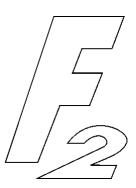
FLUTEC-TG PTMCH Page 1 of 4

Material Safety Data Sheet

FLUTEC-TG PTMCH

Last updated: 20th May 2002



1 –	- SUBSTANCE IDENTII	FICATION
_		

Trade Name: FLUTEC-TG PTMCH
Material Type: Perfluorocarbon
Company: F2 Chemicals Ltd

Address:

Lea Lane
Lea Town
Preston
Lancashire

UK

PR4 0RZ

Telephone: +44 (0) 1772 775804 Fax: +44 (0) 1772 775809 Emergency Telephone: +44 (0) 1772 775833

2 - COMPOSITION

a) Substances Predominantly perfluoro-1,3,5-trimethylcyclohexane

b) CAS Number 374-76-5

3 - HAZARD IDENTIFICATION

a) Hazard Symbols: Not applicable

b) Risk and Safety Keep container tightly closed.

Caution, avoid prolonged and repeated breathing of

concentrated vapour.

Thermal decomposition may produce toxic products. Small amounts of decomposition may occur above 400°C.

When using do not smoke. Do not empty into drains.

4 –	FIRST	AID	MEASL	JRES
-----	-------	-----	-------	------

a) Inhalation: In case of severe exposure; remove from exposure , rest and

keep warm. Apply artificial respiration if breathing has ceased.

Obtain medical attention if effects are other than slight.

b) Skin contact: Remove contaminated clothing and wash off with soap and

water. Obtain medical attention if adverse symptoms arise.

c) Eye contact: Irrigate thoroughly with water. Obtain medical attention if

adverse symptoms arise.

d) Ingestion: Wash out mouth with water. Obtain medical attention if

adverse symptoms persist.

FLUTEC-TG PTMCH Page 2 of 4

5 - FIRE FIGHTING MEASURES

a) Suitable Extinguishers: Carbon dioxide

Alcohol resistant foam

Powder Halons Water Fog Water Jets

Inert material – Sand, earth, etc Non-combustible material

b) Unsuitable Extinguishers: Not applicable.

c) Hazardous Decomposition: Toxic fumes may be produced on thermal decomposition.

In the presence of other reactive substances and in a fire situation where hydrogen containing compounds are present, Hydrogen Fluoride and other toxic products may be formed.

d) Special Procedures: Use water spray to cool containers.

Contact with flames gives rise to toxic vapours; avoid inhalation

of these vapours.

Use approved self-contained breathing apparatus.

Non-essential personnel should be evacuated from the area

until any fumes have dispersed.

Handle contaminated fluid in a ventilated area, avoiding

inhalation of vapour.

6 – ACCIDENTAL RELEASE MEASURES

a) Exposure Controls FLUTEC liquid spillages produce very slippery surfaces which

may be hazardous to personnel.

Evacuate area.

Do not allow spillage to enter drains and watercourse.

If water is contaminated inform relevant authority immediately.

b) Personnel Protection: Wear laboratory coat.

Respiratory protection not normally required.

Wear impermeable gloves.

Wear chemical safety spectacles or goggles.

c) Disposal Considerations: Absorb in inert material eg. sand, vermiculite absorbent

granules, place in plastic container for transfer.

Do not allow spillage to enter drains/sewers/water courses. Dispose of in accordance with local authority regulations.

FLUTEC-TG PTMCH Page 3 of 4

7 – HANDLING AND STORAGE

a) Handling Do not smoke when handling.

> Avoid contact of vapour or liquid with red-hot surfaces, flames or electrical arcs as this may give rise to toxic gases such as

Hydrogen Fluoride.

Do not use sodium or similar metals or their hydrides for removing water from the liquid; other desiccants are

acceptable.

Allow sufficient ullage when drum filling to allow for thermal

expansion.

b) Storage Store in original, tightly closed, labelled container.

Incompatible with Lithium, Sodium, Potassium, Calcium and

Barium.

8 – EXPOSURE CONTROLS

a) Occupational Exposure Limit: None

b) Biological Exposure Limit: None

9 - PHYSICAL AND CHEMICAL PROPERTIES

Clear colourless liquid Appearance:

Odourless Odour: 127.4 °C **Boiling Point:** Pour Point: -70 °C Molecular Weight: 450 Density: 1.888 kg/l Viscosity (kinematic):

1.2 mm²/s Viscosity (dynamic): 2.28 mPa s Surface Tension: 17.7 mN/m Vapour Pressure: 13.1 mbar Specific Heat: 0.96 kJ/kg °C Critical Temperature: 269* °C Critical Temperature: 542* K Critical Pressure: 18* bar

Critical Volume: 1.5* l/kg Thermal Conductivity: 61.1 mW/m °C Solubility in Water: Insoluble

Solubility in Organic Solvents: Sparingly soluble in most common solvents.

Miscible with CFCs.

10 - STABILITY AND REACTIVITY

a) Stability: Extremely stable.

b) Conditions to Avoid: Naked flames, hot surfaces.

c) Materials to Avoid: Lithium, Sodium, Potassium, Calcium, and Barium. FLUTEC-TG PTMCH Page 4 of 4

11 - TOXICOLOGICAL INFORMATION

a) Chronic Effects: None known

b) Inhalation: No irritation or anaesthetic effects.

c) Skin Contact: Non-irritating but hot liquid or vapour may cause thermal burns.

d) Eye Contact: Non-irritating but hot liquid or vapour may cause thermal burns.

e) Routes of Exposure Inhalation, skin and eye absorption, ingestion.

12 - ECOLOGICAL INFORMATION

a) Ecotoxicity: No specific data available

13 – DISPOSAL CONSIDERATIONS

Contact manufacturer.

Dispose of through an authorised contractor to a licensed

landfill site.

Do not discharge into drains or watercourses.

Large quantities should be incinerated by a waste disposal

organisation.

14 - TRANSPORT INFORMATION

Non-hazardous liquid not regulated for transport services.

UN Number – not applicable IATA/ICAO – not regulated

ADR – not regulated IMDG – not regulated

Transport name – not applicable Hazchem code – not applicable.

15 – REGULATORY INFORMATION

a) Hazard symbols: None

b) Risk and Safety phrases: S41: In case of fire and/or explosion do not breathe fumes.

c) Other regulations: Health and Safety at Work Act 1974.

d) Transport Information: See 14. Transport Information.

16 - OTHER REGULATION

a) Suitability for purpose: F2 Chemicals Ltd. cannot guarantee the suitability of this

material for any particular purpose. It is the responsibility of the customer to satisfy himself that the product is suitable for his purpose. In the event of doubt the customer may contact F2

Chemicals Ltd. for advice.